

| Ref # | Hits | Search Query                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DBs                  | Default Operator | Plurals | Time Stamp       |
|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|---------|------------------|
| S1    | 38   | ((("2,958,391") or ("3,241,298") or ("3,413,777") or ("3,428,476") or ("4,496,373") or ("4,589,891") or ("5,049,167") or ("5,139,541") or ("5,205,841") or ("5,215,729") or ("5,217,506") or ("5,258,339") or ("5,259,870") or ("5,358,553") or ("5,393,325") or ("5,451,386") or ("5,449,848") or ("5,498,278") or ("5,614,001") or ("5,652,020") or ("5,672,388") or ("5,738,708") or ("5,782,959") or ("5,782,960") or ("5,904,754") or ("6,152,987") or ("6,152,995") or ("6,183,542") or ("6,267,801") or ("6,372,363") or ("6,379,524") or ("6,419,728") or ("6,475,268") or ("6,547,858") or ("6,596,057") or ("20020083829") or ("20020020298") or ("20020164496")).PN. | US-PGPUB;<br>USPAT   | OR               | OFF     | 2005/10/17 12:53 |
| S2    | 538  | (95/55.ccls. or 95/56.ccls. or 96/4.ccls. or 96/11.ccls. or 55/524.ccls. or 55/487.ccls. or 55/dig.5.ccls.) and (hydrogen same membrane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | US-PGPUB;<br>USPAT   | OR               | ON      | 2005/10/17 12:55 |
| S3    | 76   | (95/55.ccls. or 95/56.ccls. or 96/4.ccls. or 96/11.ccls. or 55/524.ccls. or 55/487.ccls. or 55/dig.5.ccls.) and (hydrogen same membrane) and (diffusion near4 (barrier or inhibit\$4 or prevent\$3))                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | US-PGPUB;<br>USPAT   | OR               | ON      | 2005/10/17 13:09 |
| S4    | 52   | (95/55.ccls. or 95/56.ccls. or 96/4.ccls. or 96/11.ccls. or 55/524.ccls. or 55/487.ccls. or 55/dig.5.ccls.) and (hydrogen same membrane) and (intermediate near3 layer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT   | OR               | ON      | 2005/10/17 13:03 |
| S5    | 17   | (hydrogen near4 membrane) and (diffusion near4 (barrier or inhibit\$4 or prevent\$3)) and (intermediate near4 layer) and (support or substrate) and palladium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | US-PGPUB;<br>USPAT   | OR               | ON      | 2005/10/17 13:13 |
| S6    | 40   | (hydrogen near4 membrane) and (composite) and (intermediate near4 layer) and (support or substrate) and palladium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US-PGPUB;<br>USPAT   | OR               | ON      | 2005/10/17 13:15 |
| S7    | 4    | ((hydrogen or h2) near4 membrane) and (composite) and (intermediate near4 layer) and (support or substrate) and (palladium or pd or alloy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EPO; JPO;<br>DERWENT | OR               | ON      | 2005/10/17 13:16 |

|     |    |                                                                                                                                                                                                             |                   |    |     |                  |
|-----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|-----|------------------|
| S8  | 3  | ((hydrogen or h2) near4 membrane) and (diffusion near4 (prevent\$3 or inhibit\$4 or barrier)) and (support or substrate) and (palladium or pd or alloy)                                                     | EPO; JPO; DERWENT | OR | ON  | 2005/10/17 13:17 |
| S9  | 13 | ((("3413777") or ("3428476") or ("4528003") or ("4536196") or ("4655797") or ("5215729") or ("5259870") or ("5782959") or ("5827569") or ("6214090") or ("6641647") or ("6828037") or ("20010000380"))).PN. | US-PGPUB; USPAT   | OR | OFF | 2005/10/17 13:48 |
| S10 | 3  | "1361916"                                                                                                                                                                                                   | EPO; DERWENT      | OR | OFF | 2005/10/17 14:40 |